

USB control circuit with automatic route-switching function

ABSTRACT

The present invention discloses a universal serial bus (USB) control circuit, and more particularly, a USB control circuit with an automatic route-switching function. The USB control circuit comprises: a plurality of USB pads, connecting a plurality of USB devices; a plurality of USB transceivers, each connected to a corresponding USB pad; at least one USB controller, each connected to at least one corresponding USB transceivers, so as to control and drive the USB devices connected to the corresponding USB pads by using the corresponding USB transceivers; a plurality of port routing controllers, each connected to a corresponding USB transceiver; at least one enhanced USB transceivers, each connected to each of the USB pads and each of the port routing controllers; an enhanced USB controller, connected to each of the enhanced USB transceivers, so as to control and drive the enhanced USB devices connected to the corresponding USB pads by using the corresponding enhanced USB transceivers; and an enhanced device routing controller, connected to each of the port routing controllers, so as to automatically switch a USB pad that connects enhanced USB devices to the enhanced USB transceivers to be controlled by the enhanced USB controller.